



## Density Problems AE

 The density of water is  $1.0 \text{ g/mL}$ , how much should  $100 \text{ mL}$  of water weigh?

A bottle of mercury (Hg) has a mass of  $176.8 \text{ grams}$  and has a volume of  $13.0 \text{ mL}$ . What is the density of mercury?

How much does  $25.0 \text{ mL}$  of gasoline weigh if the density of gas is  $0.670 \text{ g/mL}$ ?

Calculate the density of a sample of copper if it has a mass of  $13.0 \text{ g}$  and  $1.46 \text{ cm}^3$ ?

 What would the volume be of a beaker of ethanol be if it had a mass of  $500. \text{ g}$ . (D of ethanol is  $0.806 \text{ g/mL}$ )

If you have a block of lead that weighs  $3065 \text{ g}$  and is  $3.00 \text{ cm}$  high,  $15.00 \text{ cm}$  long, and  $6.00 \text{ cm}$  wide, what is its density?

A cylinder of copper (Cu) has a diameter of  $1.00 \text{ cm}$  and a height of  $6.00 \text{ cm}$ . What is the cylinder's mass?

